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<u>Bioorganic & Medicinal Chemistry Letters</u>, <u>Vol. 9, Issue: 6, pp. 803-806</u>, March 22, 1999

Title:

A new class of anti-HIV agents: synthesis and activity of conjugates of HIV protease inhibitors with a reverse transcriptase inhibitor

Authors:

Kimura, Tooru^a; Matsumoto, Hikaru^a; Matsuda, Takashi^a; Hamawaki, Tomonori^a; Akaji, Kenichi^a; Kiso, Yoshiaki^a

Affiliations:

a. Department of Medicinal Chemistry, Kyoto Pharmaceutical University, Yamashina-ku, Kyoto 607-8414, Japan

Address:

(No address specified)

Keywords:

Abstract (English):

Conjugates of HIV protease inhibitors with a reverse transcriptase inhibitor were synthesized, which expressed excellent antiviral activity compared with that of the individual components. The remarkable antiviral activity of the conjugated compounds may be due to their penetration into the cell and later splitting into two different classes of anti-HIV agents.

Publisher:

Elsevier Science

Language of Publication:

English

Item Identifier:

S0960-894X(99)00089-X

Publication Type:

Short Communication

ISSN:

0960-894x

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             AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
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Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

Uploading 10007342.str

L1STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1

STR

G1 [@1],[@2],[@3],[@4],[@5],[@6],[@7]

G2 Cy,Ak

G3 [01], [02], [07]

Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 08:53:08 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 70 TO ITERATE

100.0% PROCESSED 70 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.06

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS:

PROJECTED ANSWERS:

BATCH **COMPLETE**
899 TO 1901
0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 08:53:17 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1454 TO ITERATE

100.0% PROCESSED 1454 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.13

L3 0 SEA SSS FUL L1

Uploading 10007342.str

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L4STRUCTURE UPLOADED

=> d

L4 HAS NO ANSWERS

L4

G1 [@1],[@2],[@3],[@4],[@5],[@6],[@7]

G2 Cy,Ak

G3 [@1],[@2],[@7]

Structure attributes must be viewed using STN Express query preparation.

=> s 14

SAMPLE SEARCH INITIATED 08:57:09 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED -

100.0% PROCESSED 0 ITERATIONS

0 TO ITERATE

0 ANSWERS

SEARCH TIME: 00.00.02

FULL FILE PROJECTIONS: ONLINE **COMPLETE** BATCH **COMPLETE**

PROJECTED ITERATIONS: O TO PROJECTED ANSWERS: 0 TO 0

L5 0 SEA SSS SAM L4

=> s 14 full

FULL SEARCH INITIATED 08:57:14 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED -4 TO ITERATE

100.0% PROCESSED 4 ITERATIONS 0 ANSWERS SEARCH TIME: 00.00.07

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L6

0 SEA SSS FUL L4

=>

Uploading 10007342.str

L7

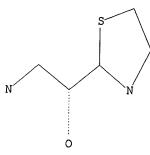
STRUCTURE UPLOADED

=> d

L7 HAS NO ANSWERS

L7

STR



G1

G2 Cy,Ak

G3

Structure attributes must be viewed using STN Express query preparation.

=> s 17

SAMPLE SEARCH INITIATED 09:02:11 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 203 TO ITERATE

100.0% PROCESSED

203 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:

3206 TO 4914

PROJECTED ANSWERS:

0 TO

L8

0 SEA SSS SAM L7

=> s 17 full

FULL SEARCH INITIATED 09:02:17 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 3771 TO ITERATE

100.0% PROCESSED 3771 ITERATIONS

7 ANSWERS

SEARCH TIME: 00.00.02

L9

7 SEA SSS FUL L7

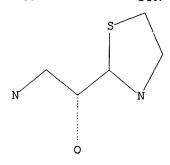
=>

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L10 STRUCTURE UPLOADED

=> d L10 HAS NO ANSWERS L10 ST



Structure attributes must be viewed using STN Express query preparation.

=> s 110 full

FULL SEARCH INITIATED 09:02:52 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 3771 TO ITERATE

100.0% PROCESSED 3771 ITERATIONS

7 ANSWERS

SEARCH TIME: 00.00.01

L11 7 SEA SSS FUL L10

=> fil caplus

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ENTRY SESSION
566.06 566.27

FULL ESTIMATED COST

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CAS roles have been modified effective December 16, 2001. Please

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=> s 111 L12 2 L11

=> d ibib abs hitstr 1-2

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L12 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2000:158985 CAPLUS DOCUMENT NUMBER: 132:347885 Synthesis of amino aci

132:347886
Synthesis of amino acid-derived thiazoles from enantiopure N-protected .alpha.-amino glyoxals Groarke, Michelles McKervey, M. Anthony; Moncrieff, Hazel, Nieuwenhuyzen, Hazk
School of Chemistry, The Queen's University, Belfast, BT9 SAG, UK
Tetrahedron Letters (2000), 41(8), 1279-1282
CODEN: TELEAY; ISSN: 0040-4039
Elsevier Science Ltd. AUTHOR (S):

CORPORATE SOURCE:

SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): GI Elsevier Science Ltd.

English CASREACT 132:347886

Several novel thiazoles with side chains derived from natural amino acids and a dispeptide were synthesized from N-protected .alpha.-amino glyowals and cysteine. For example, CbzNNCH(CHZPh)COCH.NZ was oxidized with DMD (dimethyldioxicrane) in acetone to give glyowal CbzNNCH(CHZPh)COCHO. The glyowal was reacted with N-Cys-CMe.cntdot.HCl in presence of KNCO3 in StOH/HZO to give the intermediate thiazolidine 1. Next, dehydrogenation of I was performed with N-O2 in CHZC12 to give the product thiazole II without any racemization at the amino acid center. 268747-12-2P 268747-13-3P 268747-14-4P 268747-15-5P 268747-13-3P 268747-18-8P
RL: RCT (Reactant) SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (synthesis of amino acid-derived thiazoles from chiral N-protected .alpha.-amino glyoxals) 268747-12- CAPLUS Carbamic acid, [(15)-2-methyl-1-{2-thiazolidinylcarbonyl)propyl}-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L12 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS (Continued)
RN 268747-16-6 CAPLUS
CN 4-Thiazolidinecarboxylic acid, 2-[(2S)-1-oxo-3-phenyl-2[[(phenylmethoxy)carbonyl]amino]propyl]-, methyl ester, (4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

268747-18-8 CAPLUS
4-Thiazolidinecarboxylic acid, 2-[(25)-1-oxo-2-[[(25)-1-oxo-3-phenyl-2-[[(phenylamthoxy)carbonyl]amino]propyl]amino]propyl]-, methyl ester, (4R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 13

L12 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS

268747-13-3 CAPLUS
4-Thiazolidinecarboxylic acid, 2-[(2S)-3-methyl-1-oxo-2[[(phenylmethoxy)carbonyl]amino]butyl]-, methyl ester, (4R)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

268747-14-4 CAPLUS
4-Thiazolidinecarboxylic acid, 2-[{2S}-1-oxo-2-[(phenylmethoxy)carbonyl]amino]propyl]-, methyl ester, (4R}- [9CI] (CA INDEX NAME)

Absolute stereochemistry.

268747-15-5 CAPLUS
4-Thiazolidinecarboxylic acid, 2-[(25,35)-3-methyl-1-oxo-2-[(phenylmethoxy)carbonyl]amino]pentyl]-, methyl ester, (4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L12 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1997:459247 CAPLUS
DOCUMENT NUMBER: 127:161774
TITLE: Unexpected cearrangeme Mah, Heduck; Dal Nam, Department of Chemistr

12/:161774
Unexpected rearrangement of a dihydro-1,4-thiazine
Mah, Heduck; Dal Nam, Xee; Hahn, Hoh-Gyu
Department of Chemistry, Kyonggi University, Suwon,
440-70, S. Korea
Bulletin of the Korean Chemical Society (1997), 18(6),
563-564

SOURCE:

CODEN: BKCSDE; ISSN: 0253-2964 Korean Chemical Society

Journal English

PUBLISHER: DOCUMENT TYPE: LANGUAGE: GI

AB Autoxidn. of dihydro-1,4-thiazine hydrochloride I gave AcSCH2CH2NHCCCONHPh and thiazolidine II.

19327-75-2P

ISDSC:-/>-/PAPE
RE: SPN (Synthetic preparation); PREP (Preparation)
[rearrangement of a dihydro-1,4-thiazine in autoxidh.)
193527-75-2 CAPLUS
2-Thiazolidineacetamide, 2-acetyl-.alpha.-oxo-N-phenyl- (9CI) (CA INDEX NAME)

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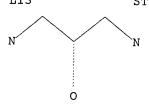
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=>
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L13 STRUCTURE UPLOADED

=> d L13 HAS NO ANSWERS L13 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 113 SAMPLE SEARCH INITIATED 09:04:34 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 14481 TO ITERATE

6.9% PROCESSED 1000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01

50 ANSWERS

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BATCH **COMPLETE**
PROJECTED ITERATIONS: 282425 TO 296815

PROJECTED ITERATIONS: 282425 TO 296815
PROJECTED ANSWERS: 38407 TO 43845

L14 50 SEA SSS SAM L13

=> s 113 full

FULL SEARCH INITIATED 09:04:38 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 285563 TO ITERATE

100.0% PROCESSED 285563 ITERATIONS SEARCH TIME: 00.00.06

40666 ANSWERS

L15 40666 SEA SSS FUL L13

=>

Uploading 10007342.str

L16 STRUCTURE UPLOADED

=> d

L16 HAS NO ANSWERS L16 STR

so₂

G1 [@1],[@2],[@3]

Structure attributes must be viewed using STN Express query preparation.

=> s 116 subset=115 full FULL SUBSET SEARCH INITIATED 09:06:47 FILE 'REGISTRY' 1007342 Page 11 07/15/2002

FULL SUBSET SCREEN SEARCH COMPLETED - 16882 TO ITERATE

100.0% PROCESSED 16882 ITERATIONS

3479 ANSWERS

SEARCH TIME: 00.00.03

L17 3479 SEA SUB=L15 SSS FUL L16

=>

Uploading 10007342.str

L18 STRUCTURE UPLOADED

=> d

L18 HAS NO ANSWERS L18 ST

O N G

2

3 SO₂

G1 [@1],[@2],[@3]

Structure attributes must be viewed using STN Express query preparation.

=> s 118 subset=117 full FULL SUBSET SEARCH INITIATED 09:07:34 FILE 'REGISTRY' FULL SUBSET SCREEN SEARCH COMPLETED - 3039 TO ITERATE

100.0% PROCESSED 3039 ITERATIONS SEARCH TIME: 00.00.02

2849 ANSWERS

ELLICH 11ME. 00.00.02

L19 2849 SEA SUB=L17 SSS FUL L18

=>

Uploading 10007342.str

L20 STRUCTURE UPLOADED

=> d

L20 HAS NO ANSWERS

L20 S

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s 120 subset=119 full

FULL SUBSET SEARCH INITIATED 09:09:11 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED - 2849 TO ITERATE

100.0% PROCESSED 2849 ITERATIONS

2666 ANSWERS

SEARCH TIME: 00.00.05

L21 2666 SEA SUB=L19 SSS FUL L20

=>

Uploading 10007342.str

L22 STRUCTURE UPLOADED

=> d

L22 HAS NO ANSWERS

L22

STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s 122 subset=121 full

FULL SUBSET SEARCH INITIATED 09:12:18 FILE 'REGISTRY'

SCREENING

FULL SUBSET SCREEN SEARCH COMPLETED - 2666 TO ITERATE

100.0% PROCESSED 2666 ITERATIONS

9 ANSWERS

SEARCH TIME: 00.00.21

L23 9 SEA SUB=L21 SSS FUL L22

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
277.42 853.26

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL
ENTRY
SESSION
0.00 -1.24

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=> s 123 L24 6 L23

=> d ibib abs hitstr 1-6

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L24 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1998:502547 CAPLUS
DOCUMENT NUMBER: 129:136037
TITLE: Preparation of heterocyclic sulfonamide inhibitors of

aspartyl protease
Tung, Roger D.; Murcko, Mark A.; Bhisetti, Govinda Rao
Vertex Pharmaceuticals, Incorporated, USA
U.S., 87 pp., Cont.-in-part of U.S. 5,585,397.
CODEN: USXXAM
Patent
English
S INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE		APPLICATION	NO.	DATE			
US 5783701	A	19980721		US 1995-393	460	19950223			
EP 885887	A2	19981223		EP 1998-113	921	19930907			
EP 885887	A3	19990203				-5			
R: AT, BE,	CH, DE	DK, ES,	FR, G	B, GR, IT, L	I. LU.	NL. SE.	MC.	PT.	ΙE
US 5585397	Α	19961217		US 1993-142	327	19931124		,	
US 5723490				US 1995-4241					
US 5977137				US 1998~115					
US 6392046									
		20020521		US 1999-4098					
PRIORITY APPLN. INFO	. :		US	1992-941982	B2	19920908			
			บร	1993-142327	A2	19931124			
			EP	1993-921428	A3	19930907			
				1993-US8458					
			us	1995-393460	B2	19950223			
				1998-115394		19980714			
OTHER SOURCE(S):	MAT	RPAT 129:1		1330 113234	110	13300114			
GI SOUNCE (S)	PLAT	TAI 129:1	136097						

The title compds. I $\{A=H, -Ht, -RlHt, (un) \text{ substituted } -Rl-alk(en)yl\}$ R1 = CO, SO2, COCO, OCO, OSO2, NR2SO2, NR2CO, NR2COCD; Ht = (un) substituted cycloalk(en)yl, aryl, (benzo) heterocyclyl); R2 = H, alkyl, -alkyl-R7; B = NRZC(R3)2CO; n = 0, 1; R3 = (un) substituted alk(en)yl) or cycloalk(en)yl; n = 1, 2; D, D' = R7, (un) substituted alk(en)yl or cycloalk(en)yl; R7 =

L24 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2002 ACS

160230-76-2 CAPLUS
2,1,3-Benzoxadiazole-4-sulfonamide, N-[(2R,3S)-3-[([dimethylamino]sulfonyl]amino]-2-hydroxy-4-phenylbutyl]-N-(2-methylpropyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

160230-78-4 CAPLUS Acetamide, N-[5-[[(2R,3S)-3-[[(2,5-dimethoxyphenyl)sulfonyl]amino]-2-hydroxy-4-phenylbutyl](2-methylpropyl)amino]sulfonyl]-2-fluorophenyl]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

210537-81-8 CAPLUS
Butanamide, N-{[15,28}-3-{[[4-{acetylamino}] phenyl] sulfonyl](2-methylpropyl) amino]-2-hydroxy-1-(phenylmethyl) propyl]-3,3-dimethyl-2-oxo-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2002 ACS (Continued)
(un) substituted Ph, carbocyclyl, or heterocyclyl; E = Ht, -0-Ht, -Ht-Ht,
OR3, NR2R3, (un) substituted alk(en)yl or carbocyclyl; R4 = OR2, CONHRZ,
SOZNHRZ, halo, NRZCORZ, cyanol are prepd. as inhibitors of HIV aspartyl
protease. The invention also relates to pharmaceutical compns. comprising
these compds. The compds. and pharmaceutical compns. are particularly
well suited for inhibiting HIV-1 and HIV-2 protease activity. The
invention also relates to methods for inhibiting the activity of HIV
aspartyl protease using the invention compds., and to methods for
screening compds. for anti-HIV activity. Prepns. of almost 200 compds.
are described, and some of these plus addnl. compds. are claimed. Some of
the compds., e.g., II, inhibit HIV replication (IC90) in CCRM-CEM cells in
vitro at concns. of .ltoreq. 100 nM.
II 160230-49-9P 160230-75-1P 160230-76-2P
160230-49-9P 160230-75-1P 160230-76-2P
RN: RAC (Diclogical activity or effector, except adverse); BSU (stological
study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of heterocyclic sulfonamide derivs. as inhibitors of HIV
aspartyl protease)
RN 160230-49-9 CAPLUS

RN 160230-49-9 CAPLUS

RN 160230-49-9 CAPLUS

RN 160230-49-9 (CAPLUS

RN 160230

Absolute stereochemistry.

160230-75-1 CAPLUS
Acetamide, N-[5-{[[(2R,35)-3-{[(3-(acetylamino)-4-fluorophenyl]sulfonyl]amino]-2-hydroxy-4-phenylbutyl](2-methylpropyl)amino]sulfonyl]-2-fluorophenyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2002 ACS (Continued)

1007342 Page 15 07/15/2002

L24 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1997:324629 CAPLUS DOCUMENT NUMBER: 1266:343148

AUTHOR(S):

126:343148
Chemical Library Purification Strategies Based on Principles of Complementary Molecular Reactivity and Molecular Recognition
Flynn, Daniel L.; Crich, Joyce Z.; Devraj, Rajesh V.; Hockerman, Susan L.; Parlow, John J.; South, Michael S.; Woodard, Scott
Section of Parallel Medicinal and Combinatorial
Chemistry, Searle Discovery Research, St. Louis, MO, 63167, USA
Journal of the American Chemical Society (1997), 119(21), 4874-4881
CODEN: JACSAT; ISSN: 0002-7863
American Chemical Society
Journal CORPORATE SOURCE:

PUBLISHER:

English

SOURCE:

DOCUMENT TYPE: LANGUAGE: AB A new met

Absolute stereochemistry.

L24 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1997:9928 CAPLUS
DOCUMENT NUMBER: 126:144117
TITLE: Preparation of sulfon:

126:144117
Preparation of sulfonamide inhibitors of aspartyl protease
Tung, Roger D., Murcko, Mark A., Bhisetti, Govinda R.
Vertex Pharmaceuticals, Incorporated, USA
U.S., 87 pp., Cont.-in-part of U.S. Ser. No.
941,982, abandoned.
CODEN: USXXAM
Patent
English
5 INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

		NO.		DATE		APPL	ICATIO	N NO.	DATE			
	US 5585	397	A	19961217 19940317		US 19	993-14	2327	19931124			
	W:	AT, AU,	BB, BG	BR, BY,	CA. C	TH. CZ.	. DE-	DK. ES	19930907	WII	.TD	
		KP, KR,	KZ, LK	Lu, Lv,	MG, N	IN. MW.	NL.	NO. NZ.	PL. PT.	RO,	BII	
		SD, SE,	SK, UA,	. US, UZ,	VN							
	RW:	AT, BE,	CH, DE,	DK, ES,	FR, C	B, GR,	IE,	IT, LU,	MC, NL,	PT.	SE.	
		BF, BJ,	CF, CG,	CI, CM.	GA. G	N. MI	MR.	NE. SN.	TO TO			
	EP 88588	37	AZ	19981223		EP 19	998-11	3921	19930907			
	EF 88588	17 17 DE	AJ	19990203								
	IIC 67837	MI, DE,	CH, DE,	DK, ES,	FR, G	B, GR,	IT,	LI, LU,	NL, SE,	MC,	PT,	ΙE
	US 57234	90	^	19980721 19980303 19990105 20020416 19991102 19991221		05 19	95-39	3460	19950223			
	US 58563	153	Δ.	19990303		US 19	195-42	4819	19950419			
	US 63727	178	Bl	20020416		115 10	195-47	1931	19950607			
	US 59771	37	A	19991102		US 19	98-11	5394	19990007			
	US 60049	57	A	19991221		US 19	98-12	1008	19980722			
PRIO	RITY APPL	N. INFO	. :		US	1992-	94198	2 B2	19920908			
					WO	1993-	US845	e w	19930907			
									19930907			
									19931124			
									19950223			
									19950607			
OTHE	R SOURCE (S) ·	MAD	PAT 126:1	44117	1998-	115394	A3	19980714			
GI		-,.	FLACE	*A. 120:1	4411/							

ND' SO2E

The title compds. I [A = 3-tetrahydrofuryloxycarbonyl; D' = (un) substituted alkyl; E = (un) substituted aryl] are prepd. This invention also relates to pharmaceutical compns. comprising these compds. The compds. and pharmaceutical compns. of this invention are particularly

Examiner Anderson 703-605-1157

L24 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2002 ACS (Continued)

ΙT 190060-12-9P

190000-12-99
RL: SPN (Synthetic preparation); PREP (Preparation)
(Chem. library purifn. strategies based on principles of complementary
mol. reactivity and mol. tecognition)
190060-12-9 CAPUIS
Benzenesu[fotonamide, 4-methyl-N-[3-[[(4-methylphenyl)sulfonyl]amino]-2-oxo4-phenylbutyl]-N-(2-methylpropyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry,

L24 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2002 ACS (Continued)
well suited for inhibiting HIV-1 and HIV-2 protease activity and
consequently, may be advantageously used as antiviral agents against the
HIV-1 and HIV-2 virtuses. This invention also relates to methods for
inhibiting the activity of HIV aspartyl protease using the compds. of this
invention and methods for screening compds. for anti-HIV activity. The
title compds. inhibit HIV replication at concn. of .ltoreq. 100 nM.
17 160230-48-9P 160230-75-IP 160230-76-2P
RE: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of sulfonamide inhibitors of aspartyl protease)

RN 160230-49-9 CAPLUS
CR Ethanediamide, N-(1(15, 2R)-3-[[{4-(acetylamino)penyl]sulfonyl](2methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-N'-(1,1dimethylethyl)- (GCI) (CA INDEX NAME)

160230-75-1 CAPLUS
Acetamide, N-[5-{[[(2R,35)-3-[[[3-(acetylamino)-4-fluorophenyl]sulfonyl]amino]-2-hydroxy-4-phenylbutyl](2-methylpropyl)amino|sulfonyl]-2-fluorophenyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

160230-76-2 CAPLUS

100230-70-2 CAPLUS 2.1,3-Bencoxadiazole-4-sulfonamide, N-[(2R,3S)-3-[[(dimethylamino)sulfonyl]amino]-2-hydroxy-4-phenylbutyl]-N-(2-methylpropyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

1007342 Page 16 07/15/2002

L24 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2002 ACS (Continued)

160230-78-4 CAPLUS Acetamide, N-[5-[[(2R,3s)-3-{[(2,5-dimethoxyphenyl)sulfonyl]amino]-2-hydroxy-4-phenylbutyl](2-methylpropyl)amino]sulfonyl]-2-fluorophenyl]-(9CI) (CA INDEX NAME)

L24 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2002 ACS (Continued)

Absolute stereochemistry.

160230-75-1 CAPLUS
Acetamide, N=[5-[[(2R,3S)-3-[([3-(acetylamino)-4-fluorophenyl]sulfonyl]amino]-2-hydroxy-4-phenylbutyl](2-

Examiner Anderson 703-605-1157

L24 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1995:293723 CAPLUS
DOCUMENT NUMBER: 122:81141
TITLE: 50 FRITTING OF HIV-aspartyl protease
TUNGNTOR(S): 70 FRITTING FRITTI

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PA	TENT	NO.		KI	ND	DATE			A	PPLI	CATI	ON N	٥.	DATE				
	VO 9405639																	
¥O	9405	639		A	1	1994	0317		W	0 19	93-U	S845	8	1993	0907			
	₩:	AT,	ΑU,	BB,	BG,	BR,	BY,	CA,	CH,	CZ,	DE,	DK,	ES,	FI,	GB,	HU,	JP,	
		KP,	KR,	ΚZ,	LK,	LU,	LV,	MG,	MN,	MW,	NL,	NO,	NZ,	PL,	PT,	RO,	RU,	
			SE,															
	RW:	AT,	BE,	CH,	DΕ,	DK,	ES,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	
		BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	ML,	MR,	NE,	SN,	TD,	TG			
LT	3302 6591			В		1995	0626		L	19	93-9	17		1993	0901			
EP	6591	81		A:	1	1995	0628		El	P 19	93-9	2142	9	1993	0907			
EP	6591	81		В.	1	1999	0407											
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IE,	IT,	LI,	LU,	MC.	NL,	PT.	SE
JP	0850	1299		T	2	1996	0213		JI	P 19	93-51	0752	5	1993	907			
JP	30120	002		B	2	2000	0221											
HU	0850: 30120 71892 69110	2		A2	2	1996	0228		н	J 199	95-6	85		19930	907			
AU	69116	60		Ba	2	19980	0514		Αl	J 199	3-41	8520		19930	1907			
LF	00300			n	6	1998.	1223		E	199	98-1	13921	ı	19930	907			
EP	88588	37		A3	3	19990	0203											
	R:	AT,	BE,	CH,	DE,	DK.	ES.	FR.	GB.	GR.	IT.	LI.	LU.	NL,	SE.	MC.	PT.	IE
AT	17859 21319 21356 30120 28136 28947 10873	98		E		1999	0415		ÀΊ	199	3-92	21428	1	19930	907	,	,	
ES	21315	589		Т3	3	19990	0801		ES	199	3-92	21428		19930	1907			
RU	21354	196		C1	1 :	19990	0827		RI.	1 199	5-10	19928		19930	1907			
JP	30120	002		B2	2 :	20000	2221		JP	199	14-50	17525		19936	907			
SX	28136	50		В€	5 :	20010	2212		SX	199	5-29	33		19930	907			
CZ	28947	75		Вб	5	20020	116		CZ	199	15-56	17		19930	907			
CN	10873	347		A		19940	0601		CN	1 199	13-11	7370		19930	ROP			
CN	10613	339		В	- 3	20010	1131		٠.,			. , , , ,		1,350	300			
ZA	93084	170		Ā		9941	1620		24	199	3-04	170		19031	112			
US	55853	197		Δ		19961	217		115	100	3_14	12322		10031	124			
FI	95010	159				OOF	410		-	100								
NO	95010 95008	76		ñ	- 1	9950	1500		NO	100	5_07	16		19950 19950 19920	207			
PRIORITY	APPL	N. T	NFO.	, "				11	c 10	02-0	4100	2	20	10030	000			
PRIORITY		1	0.	•				-	D 10	35-3	2142	10	12	19920	007			
												8						
OTUED CO	unan (33-0	3045		w	19930	307			

OTHER SOURCE(S): MARPAT 122:81141

L24 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2002 ACS (Continued) methylpropyl) amino] sulfonyl] -2-fluorophenyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

160230-76-2 CAPLUS
2,1,3-Benzoxadiazole-4-sulfonamide, N-((2R,3s)-3-[(dimethylamino)sulfonyl]amino]-2-hydroxy-4-phenylbutyl]-N-(2-methylpropyl)- (SCI) (CA INDEX NAME)

Absolute stereochemistry.

160230-78-4 CAPLUS Acetamide, N=[5-[[[(2R,3S)-3-[[(2,5-dimethoxyphenyl)sulfonyl]amino]-2-hydroxy-4-phenylbutyl](2-methylpropyl)amino]sulfonyl]-2-fluorophenyl]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1992:531563 CAPLUS DOCUMENT NUMBER: 117:131563 TITLE: Preparation of budgets

117:13163
Preparation of hydroxydiaminoalkanes and amino acid and peptide derivatives thereof as retroviral protease inhibitors
Dreyer, Geoffrey Bainbridge; Boehm, Jeffrey Charles; Chenera, Balan
SmithKline Beecham Corp., USA
PCT Int. Appl., 47 pp.
CODEN: PIXXO2
Patent

INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PA'	TENT	NO.		KIND	DATE	APPLICATION NO.	DATE
	WO	920			A1	19920123	WO 1991-US4757	19910703
		¥:	Aυ	, CA,	JP, KF	, US		
		RW:	: AT	, BE,	CH, DE	, DK, ES,	FR, GB, GR, IT, LU, N	L, SE
	CA	208	6414		AA	19910703	CA 1991-2086414	19910703
	ΑU	9182	2334		A1	19920204		
	EP	5383	366		A1	19930428		
		R:	AT	, BE,	CH, DE	, DK, ES,	FR, GB, GR, IT, LI, L	
	JΡ	0550	0885	5	T2	19931209	JP 1991-512663	19910703
		9105			A	19920826	ZA 1991-5269	19910708
IO	RITY	' API	LN.	INFO.	.:		US 1990-549457	19900706
							WO 1991-US4757	19910703
HE!	R SC	DURCE	(5)	:	MA	RPAT 117:	131563	

OTHER SOURCE(S):

Title compds. [I and II; XI, X2 = ABn; n = 0-2; A = H, Ph3C, CH0, (substituted) alkylcarbonyl, arylcarbonyl, heterocyclylcarbonyl, etc.; B = Ala, Asn, Cys, Trp, Gly, Gln, Ile, Leu, Met, Phe, Pro, Ser, Thr, Val, His, trifluoroalanyl; RI, R2 = CH2R12, H, cycloalkyl, (Cl, F, or H0-substituted) alkyl; RI2 = NHA, R5(R6R7C)m, R85(O)n, (substituted) amino, inidazolyl, N-benzimidazolyl, alkynyl, alkenyl, azetidinyl, pyrrolidinyl, piperidinyl, morpholinyl, etc.; R5-7 = H, Cl, F, OH, alkowy (substituted) alkyl; Ph, naphthyl, heterocycle, or 2 of R5-7 may form a ring systems R8 = pyridyl, furyl, benzisoxazolyl, etc.] were prepd. Thus, D-arabitol in pyridine was treated with p-toluenesulfonyl chloride at ice temp.-room temp. to give 744 ditosylate, which was treated with NaH and then PhCHZBr in THF to give (2R,4R)-1,2,4,5-dianhydro-3-benzyloxyarabitol. The latter was treated with Cul?Phli in THF at -78.degree. to 50.degree. to give 821 (2R, 4R)-1,5-diphenyl-3-benzyloxy-2,4-dihydroxypentane. This was treated with MeSO2Cl in pyridine at 0.degree.-room temp. to give the

L24 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2002 ACS (Continued) dimesylate, which was treated with NaM3 in Me2SO to give a mixt..of (25,45)-1,5-diphenyl-3-benzylowy-4-azido-1-pentene and (25,45)-1,5-diphenyl-3-benzylowy-2,4-diazidopentane. The mixt. was reduced with LiAlH4 in THF at 0.degree.-room temp. to give (25,45)-1,5-diphenyl-3-benzylowy-2,4-diaminopentane. This was hydrogenolyzed in MeONI/conc. HCl over Pd/C and the product was coupled with Cbz-Val-OH using N-methylnoryholine and iso-Bu chloroformate to give (25,45)-1,5-diphenyl-3-bydroxy-2,4-bis (benzyloxycarbonylaminovalinylamino) pentane. The latter inhibited rHV-1 protease with ICSO = 0.123 .mu.m.

IT 142286-72-49

Ri: BAC (Biglonical activity or efforter average with SCO = 0.123 .mu.m.

14226-72-49
RL: BAC (Riological activity or effector, except adverse); SPN (Synthetic preparation); BloL (Biological study); PREP (Preparation) (prepn. of, as retroviral protease inhibitor)
14226-72-4 CAPUS
Benzenesulfonamide, N,N'-[2-hydroxy-1,3-bis[phenylmethyl]-1,3-propanediyl]bis[4-methyl-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry,

L24 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1991:450304 CAPLUS DOCUMENT NUMBER: 115:50304 Freparation of amino a

115:50304
Preparation of amino acid and peptide derivatives and related compounds as retroviral protease inhibitors . Kempf, Dale 0.1, Norbeck, Daniel W.; Erickson, John W., Codacovi, Lynn M.; Sham, Hing Leung; Plattner, Jacob INVENTOR(S):

Abbott Laboratories, USA Eur. Pat. Appl., 193 pp. CODEN: EPXXDW PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Patent English 6

ATENT	INFORMATI	ON:	-				
P.	ATENT NO.	KI	ND DATE		AP	PLICATION NO.	DATE

	402646		1 19901219		EP	1990-109319	19900517
E	402646		19980722				
	R: AT,	BE, CH,	DE, DK, ES,	FR,	GB,	GR, IT, LI, I	U, NL, SE
US	5142056	P	19920825		US	1990-518730	19900509
	023(30		2 19980506		EP	1997-119700	19900517
EF	839798		3 19981028				
	R: AT,	BE, CH,	DE, DK, ES,	FR,	GB,	GR, IT, LI, I	U, NL, SE
AT	168677 2119737 9055711	E	19980815		AT	1990-109319	19900517
ES	2119737	т	3 19981016			1990-109319	
AU	9055711	A	1 19901129 2 19940120		AU	1990-55711	19900518
	645493	В	2 19940120				
	94444	A	1 19990312		ΙL	1990-94444 1990-2017252	19900520
CA	2017252	A	A 19901123				
JP	03128335 2963910	A	2 19910531 2 19991018		JP	1990-133684	19900523
JP	2963910						
	5354866	A			US	1993-121673	19930914
	5541334	A			บร	1995-409380 1995-409767	19950323
	5597926	A	19970128		US	1995-409767	19950323
	5670675 5616714	A	19970923			1995-409365	19950323
	5648497		19970401			1995-410260	19950324
	5837873	A				1995-410623	19950324
	5539122	A				1995-410162	19950324
	5552558	A			US	1995-410996	19950327
	5696270	A			US	1995-411032	19950327
	5580984	A				1995-411140	19950327
	5679797	A				1995-412253	19950328
	5583232	A	19971021 19961210			1995-412244	19950320
	5597927	A	19970128			1995-412821	
	5674882	Ä				1995-412438	
			19961210		US	1995-413136 1995-413290	19950329
	5625072	^	19970429		US	1995-413290	
	5591860	A A A	19970107			1995-416272	19950403
	5597928	Δ.	19970128			1995-416272	19950404 19950404
	5608072	A	19970304			1995-416259	
	5565418	A	19961015			1995-417304	19950404 19950405
			19970819		115	1005-417166	19950405
	5659045	A	19970819		115	1995-417165 1995-417295	19950405
US	5616720	Ä	19970401		US	1995-418056	19950406
	5635523	λ	19970603		us	1995-418056 1995-417879	19950406
	5892052	A	19990406		US	1995-418031	19950406
US	5554783	A	19960910			1995-418978	
							100001

1007342 Page 18 07/15/2002

L24			CAPLUS		YRIGHT	2002	ACS	3	(C	onti	nue	d)
	US 554		A	199	60730		US	199	5-4	2338	7	1995042
PRIO	RITY AP	PLN. INF	0.:			US	198	19-3	559	45	Α	1989052
						US	198	9-4	056	04	A	1989090
						US	198	9-4	561	24	Α	1989122
						US	199	0-5	187	30	Α	19900509
						US	198	3-3	559	45	B2	19830523
						EP	199	1-0	093	19	A3	1990051
						US	199	0-6	161	70	B2	19901120
						US	199	11-7	460	20	B2	1991081
						US	199	1-7	776	26	A1	19911023
						υs	199	2-8	807	29	B1	19920508
						US	199	2-9	981	14	B2	19921229
						US	199	3-1	649	79	В1	19930207
						US	199	3-1	216	73	A3	19930914
						us	199	3 1	505	97	23	10031202
						บร	199	4-2	702	10	A3	19940823
						US	199	4-3	586	48	A3	19941219
OTHE!	SOURCE	E(S):	МА	RPAT	115:50	304						

$$Q^{1-}$$
 Q^{2-}
 Q^{2-}
 Q^{2-}
 Q^{3-}
 Q

AB A-X-B [A,B = substituted amino, carbonyl, imino, alkyl, acyl, heterocyclyl, heterocyclylalkyl; X = CO, CHNRIR2, CINHORI, C(OH) CO2H, CH(OH), P(O)H, NORI, SO, SO2, CH(OH)CHSM, CHSH, CHESO2CH2, P(O)ORI, CHESO2CH2, Q1, Q2, Q3, etc., R1,R2 = H, alkyl, hydroxyalkyl, alkoxyalkyl; R3,R4 = H, alkyl, alkoxyalkyl], were prepd. Thus, [25,3R,45,55]-2,5-diamino-3,4-dihydroxy-1,6-diphenylhexane (prepn. given) in dioxane was treated with N-I (henzyloxycarbonylvalyl) oxyl succinimide (prepn. given) to give (25,3R,45,55)-2,5-bis[(benzyloxycarbonylvalyl)amino]-3,4-dihydroxy-1,6-diphenylhexane. The latter inhibited HIV-13B in H9 cells with IC50 = 0.015-0.027. mm.H.

IT 134604-73-2 CRU.

RI: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. of, as retroviral protease inhibitor)

RN 134804-73-2 CAPUS

CN Pentitol, 1,2,4,5-tetradeoxy-2,4-bis[(methylsulfonyl)amino]-1,5-diphenyl-(9CI) (CA INDEX NAME)

L24 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2002 ACS

1007342 Page 19 07/15/2002

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COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
26.73 879.99

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL
ENTRY SESSION
-3.72 -4.96

STN INTERNATIONAL LOGOFF AT 09:13:18 ON 15 JUL 2002